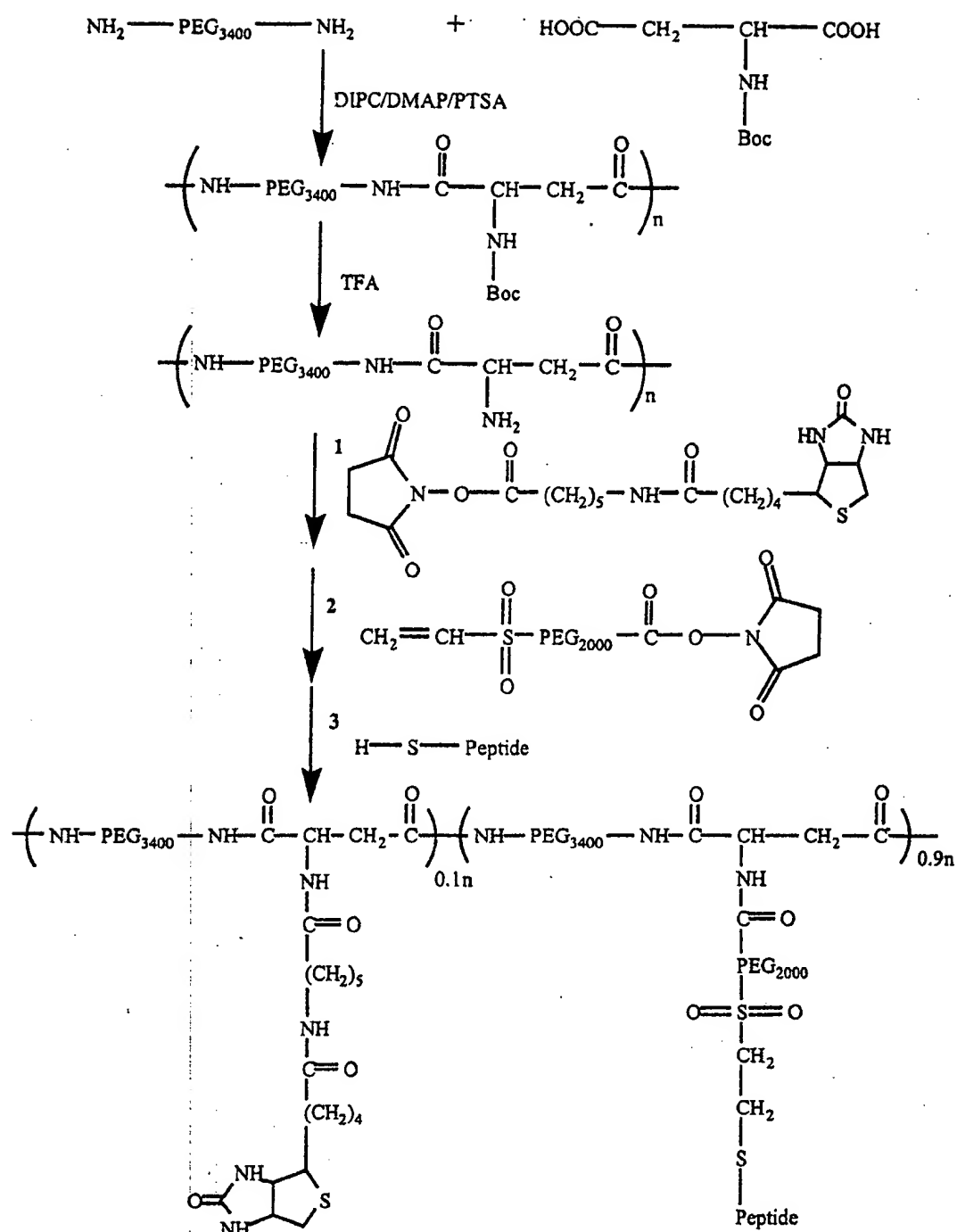


Figure 1. Synthetic scheme of poly(ethylene glycol) derived copolymer with multiple amino groups for peptide attachment.



**Figure 2. Synthetic scheme of PEG-peptide conjugates containing multiple copies of peptides and reporter molecules**

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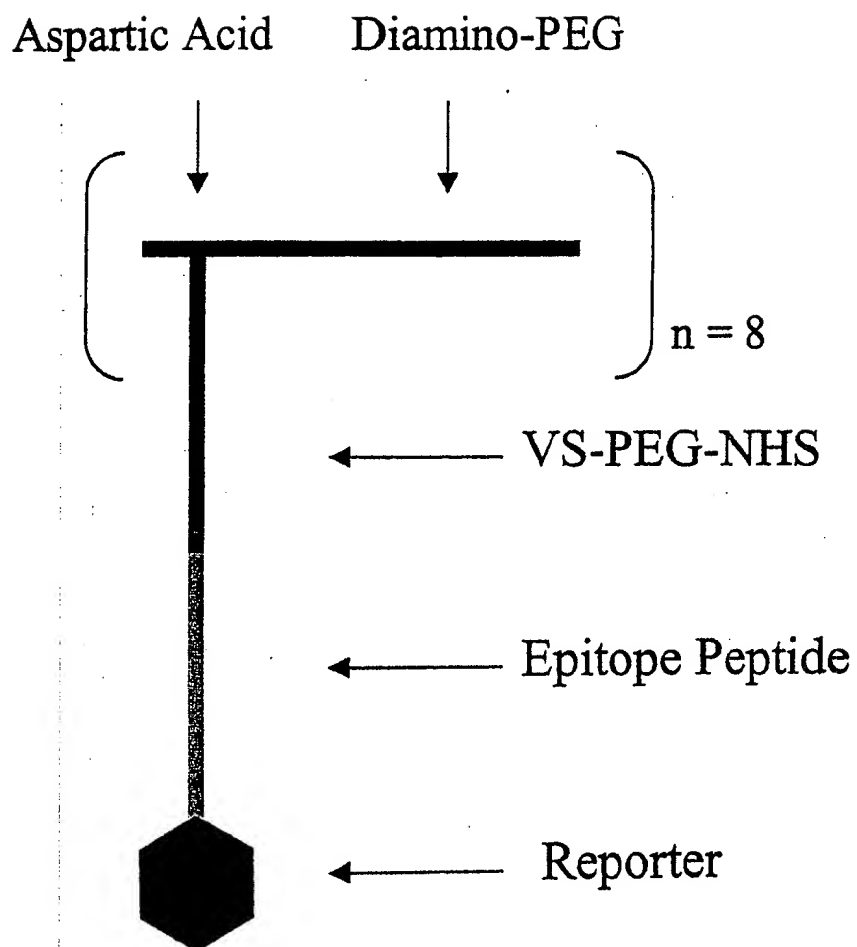
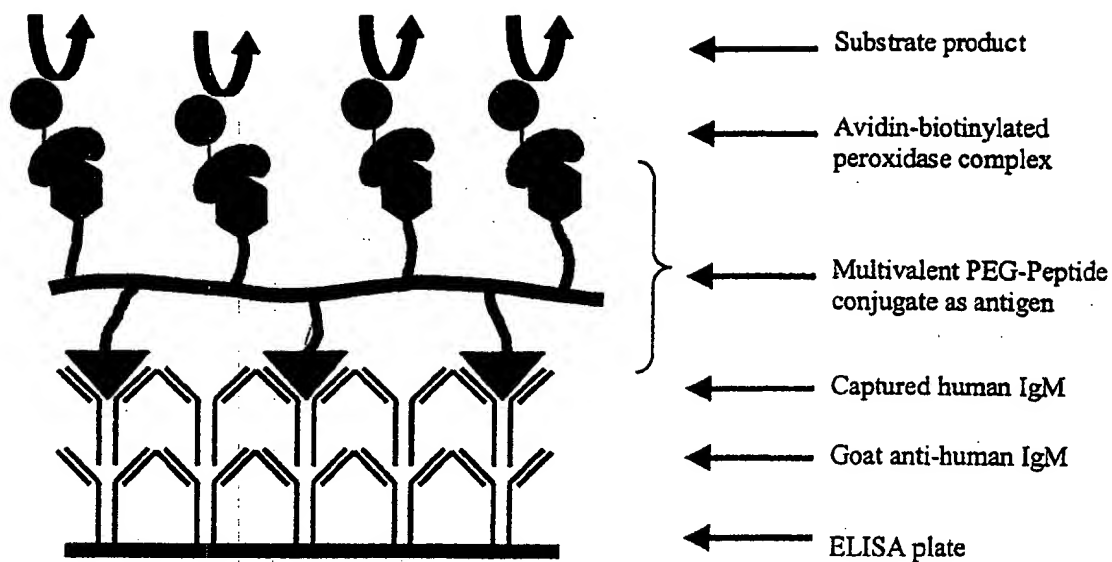


Figure 3. Schematic description of PEG-peptide conjugates with reporter group on the N-terminus of the peptide



 Biotin Reporter Molecules
  Epitope Peptides
  Polymer Chain

Figure 4. IgM-capture ELISA using PEG-peptide conjugate as antigen for serological diagnosis of Lyme disease